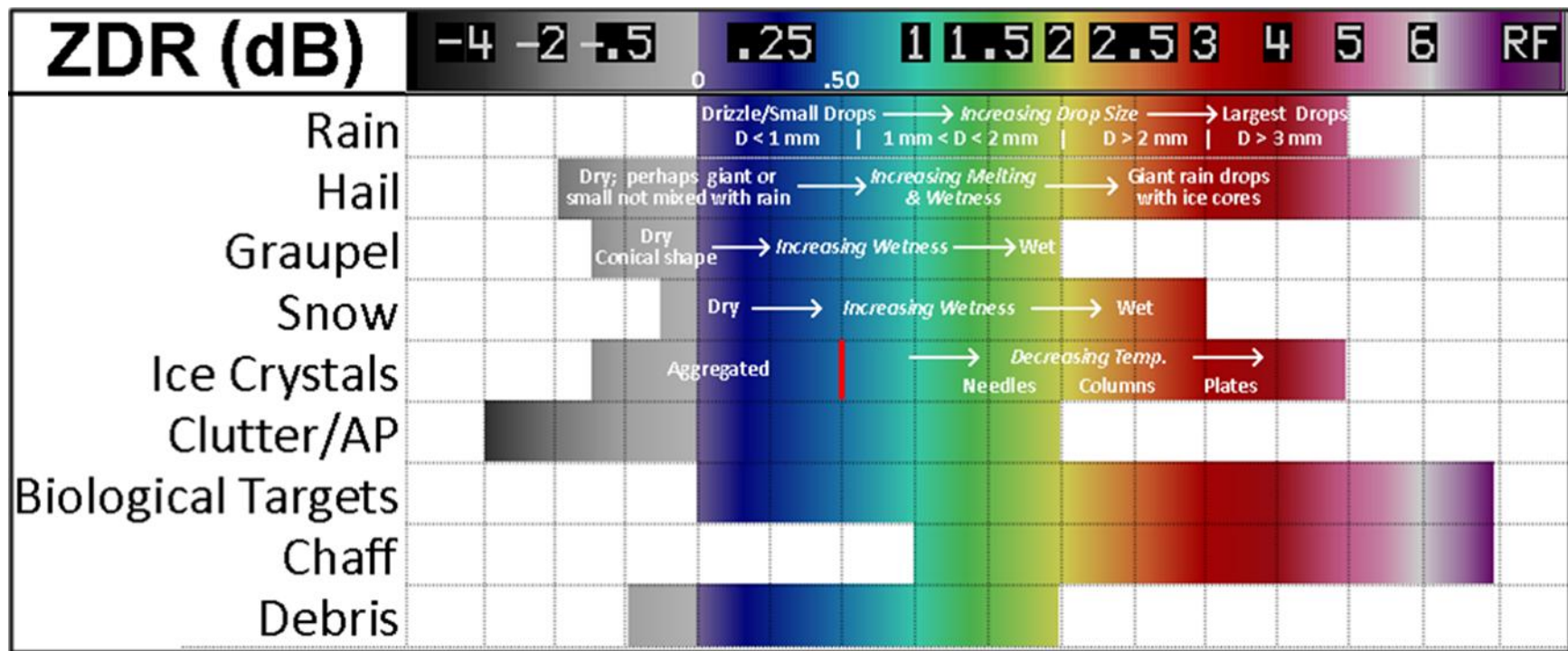


Dual Polarization Radar Quick Reference

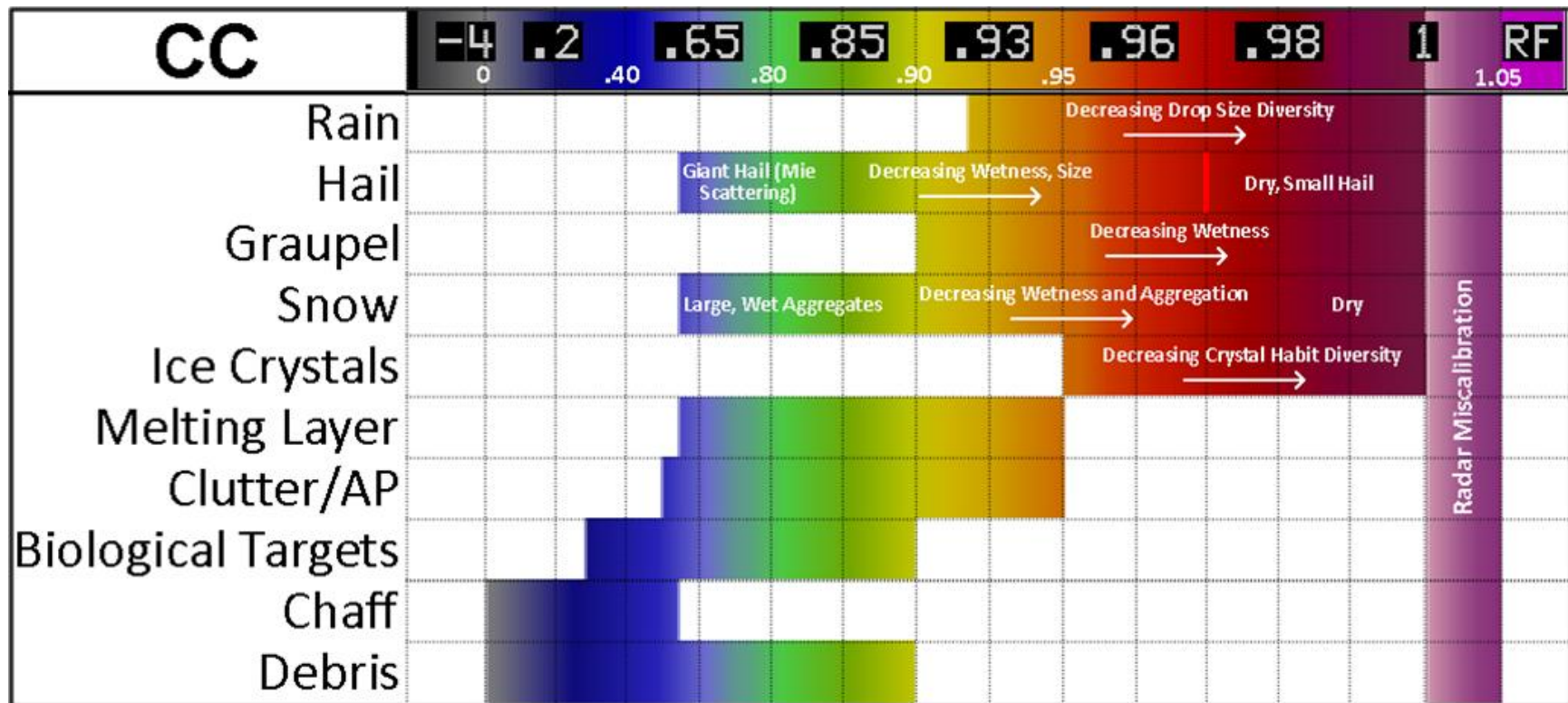


Logarithm ratio of horizontal power return to vertical power return

Can be used to identify:

- ✓ Larger rain drops
- ✓ Hail shafts
- ✓ Updraft cores
- ✓ Dry snow aggregation

Dual Polarization Radar Quick Reference

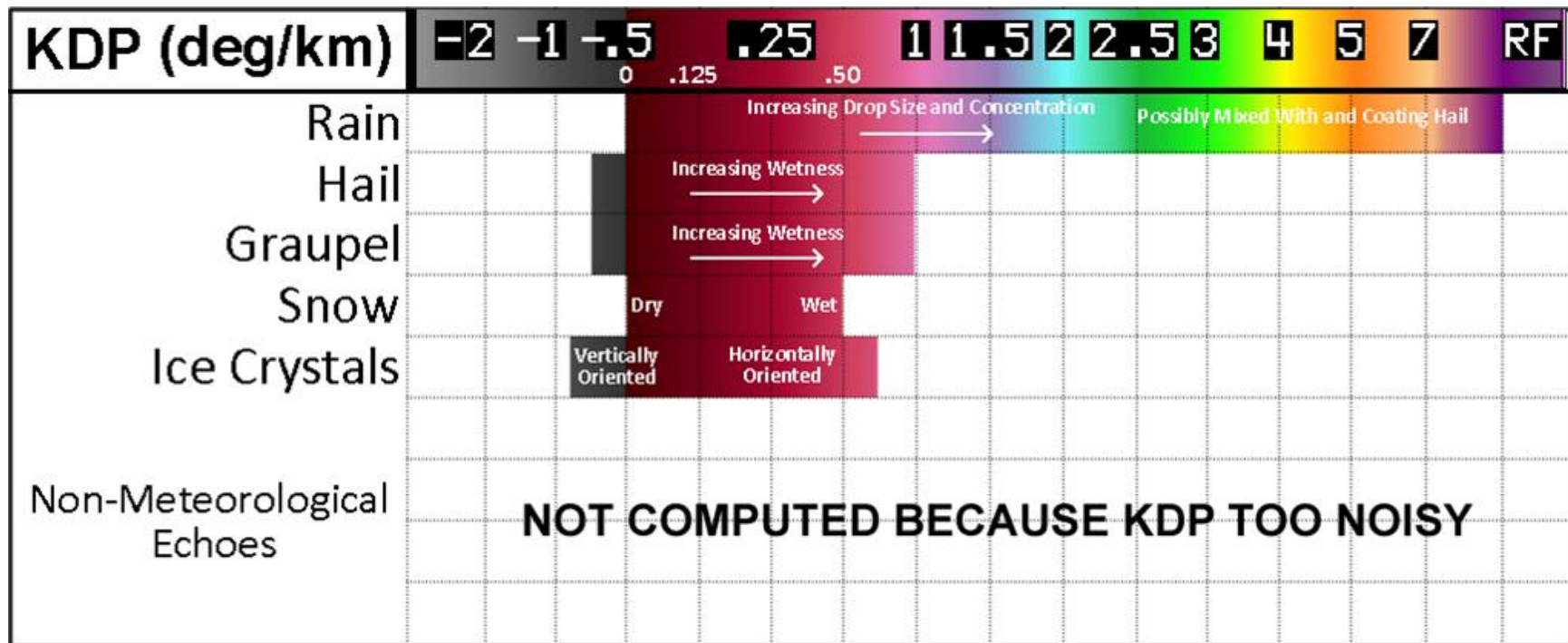


Like spectrum width for diversity of velocities, CC measures diversity of hydrometeors

Can be used to identify:

- ✓ Precipitation vs. non-precipitation
- ✓ Melting layer
- ✓ Giant hail
- ✓ Radar calibration errors

Dual Polarization Radar Quick Reference



The radial rate of change of the differential phase shift (which compares attenuation between horizontal and vertical pulses)

Can be used to identify:

- ✓ Areas of rain!
 - Works even in the presence of hail, partial beam blockage, and radar calibration errors
 - Results in vastly improved precipitation estimates